

ABSTRACT OF THE DISCLOSURE

Photoaffinity probes (photoprobes) of the PTP1B enzyme contain the trifluoromethylphenyl diazirene photophore attached to compounds which bind to the PTP1B enzyme. The photoprobes bind irreversibly to the PTP1B enzyme upon irradiation, and can be used to study the binding of compounds to the PTP1B enzyme. Compounds that bind to the PTP1B enzyme may inhibit PTP1B and may be useful in the treatment of type 2 diabetes.